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In the claims:

1. (currently amended) A method of controlling congestion in a communications network, the method comprising:

    detecting a potential network congestion condition on a connection between a sender and a receiver in the communications network, the connection having a desired fixed bandwidth; and

    upon detection of the potential network congestion condition, controlling new traffic emitted into the network to not exceed the desired a-fixed bandwidth estimated for the connection , wherein the desired fixed bandwidth is the lesser of a current amount of unacknowledged traffic emitted by the sender into the network at a time of detection of the congestion condition, and a current receiver buffer size at that time.

2. (cancelled).

3. (original) The method of claim 1, wherein the network is a private network.

4. (currently amended) A method of controlling congestion in a communications network, the method comprising:

    detecting a potential congestion condition in the a connection between two nodes in the communications network, the connection having a desired bandwidth; and

    upon detection of the potential congestion condition, controlling new traffic emitted into the network to be no more than a current unacknowledged traffic load of the network at the time of detection.

5. (original) The method of claim 4, wherein the network is a private network.

6. (original) A method of controlling congestion in a communications network, the method comprising:
determining whether a congestion condition is present;

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when a congestion condition is present, setting a congestion window size to a prescribed value , wherein the prescribed value is the lesser of a current amount of unacknowledged traffic emitted by the sender into the network at a time of detection of the congestion condition, and a current receiver buffer size at that time; and

controlling traffic from a sender delivered onto the network so that the amount of unacknowledged traffic from the sender on the network does not exceed the congestion window size.

7. (cancelled)

8. (original) A method of controlling congestion in an effectively constant bandwidth connection comprising:

detecting a potential congestion condition; and

controlling bandwidth of the connection to be no more than the lesser of an unacknowledged traffic level at a time of the detection, and a receiver buffer size.